



# Uniformed Services University of the Health Sciences



## National Capital Area Medical Simulation Center

J. Lopreiato MD,MPH

Commander-In-Chief's Trophy in Hand,  
Navy's Turnaround Complete:  
**Navy 34, Army 6**

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# Clinical Skills Teaching and Assessment Laboratory



# Standardized Patient Exam





# Clinical Skills Teaching and Assessment Laboratory



# Surgical Simulation Laboratory

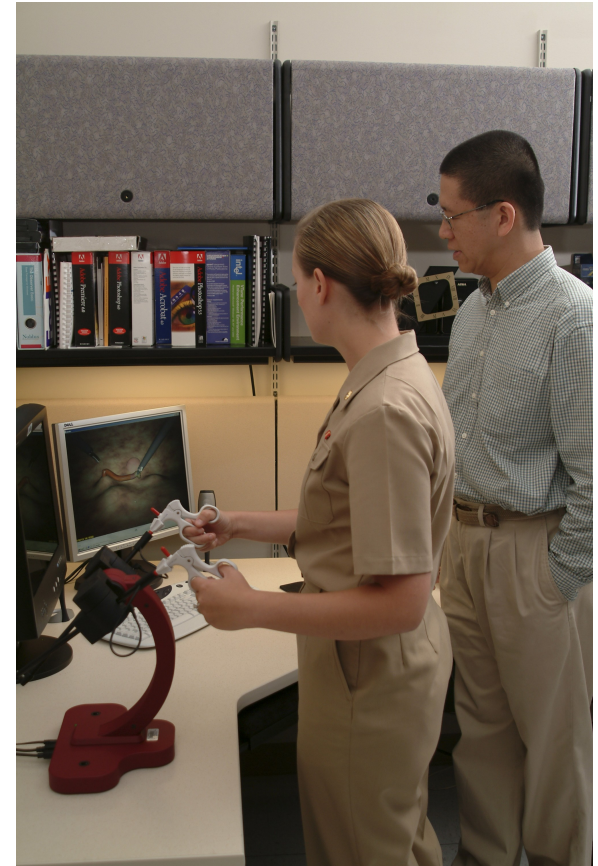


# Surgical Simulation Laboratory

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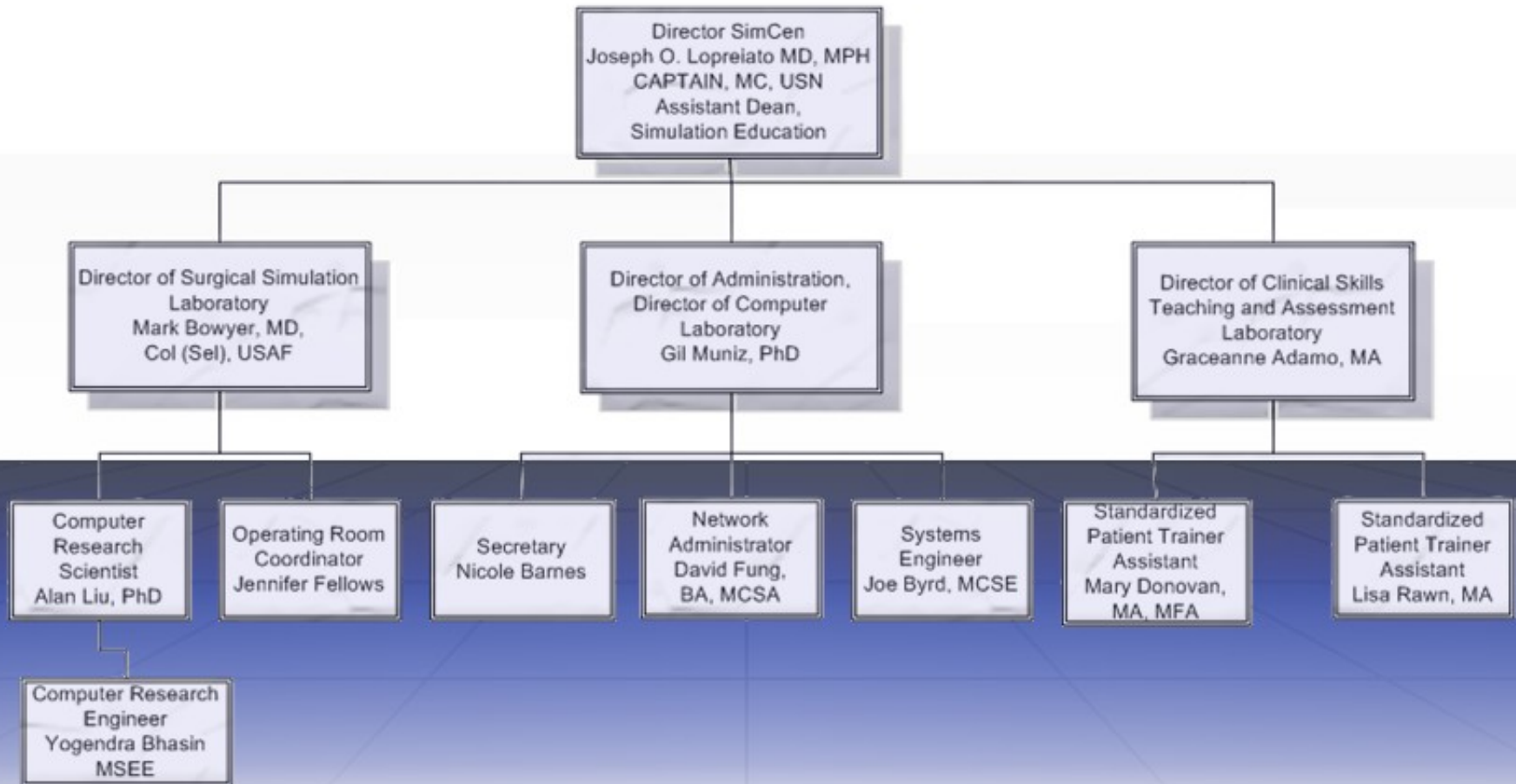
# Virtual Reality Laboratory





# National Capital Area Medical Simulation Center

## 04/07/03



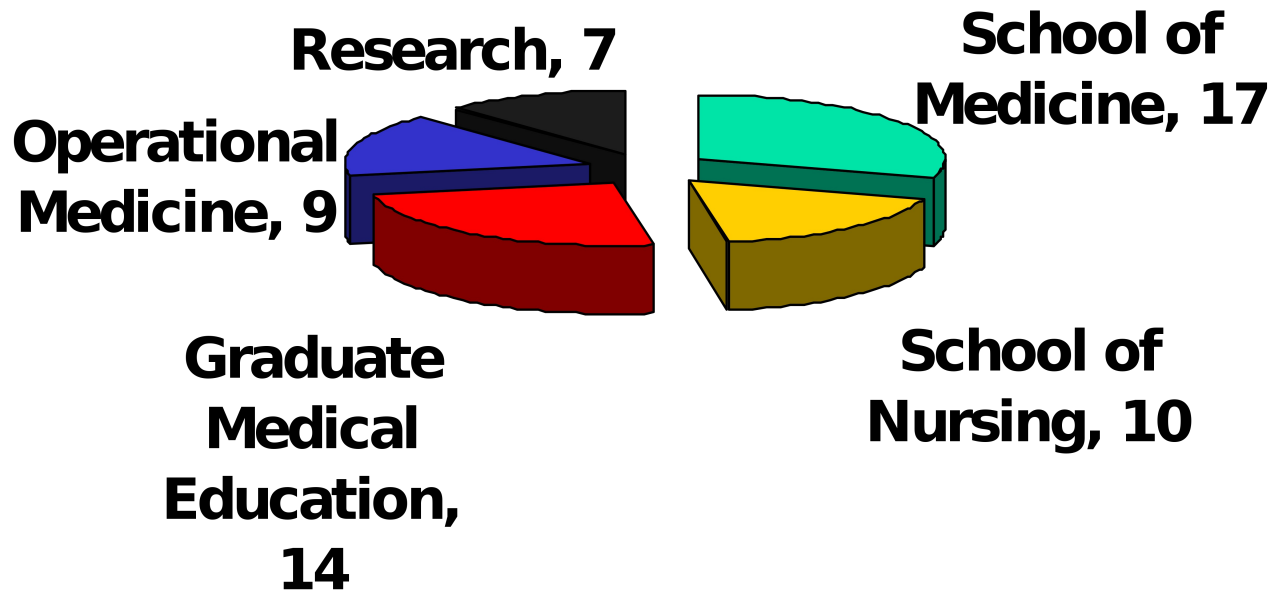
# Target Population



- 660 USU Medical Students
- 87 USU Graduate Nursing Students
- More than 600 NCA Graduate Medical Education
- More than 2000 NCA Military Medical Personnel

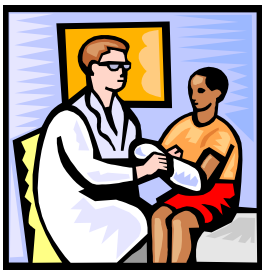


# Support for 57 Educational Projects



# School of Medicine (1 of 2)

- Introduction to Clinical Medicine 1, 2, and 3
- Breast Exam Patient Instructors
- ICM OSCE



- Obstetrics & Gynecology Clerkship Event
- Pediatric Cardiac Auscultation
- Pediatric Clerkship Event

# School of Medicine (2 of 2)

- General Surgery Clerkship Event
- Psychiatric Clerkship Event
- US Medical Licensing Exam Step I and II Test Training
- Family Practice Clerkship Advocacy Project

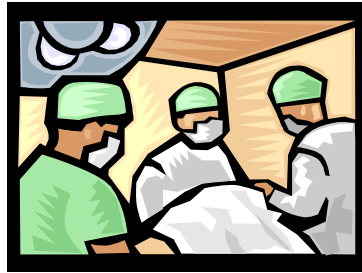


# School of Nursing (1 of 2)

- Health Assessment Nurse Practitioners
- Health Assessment Nurse Anesthetists
- Women's Health Course
- Primary Care of the Adult Course
- Nurse Practitioner Practicum Early Formative Exam



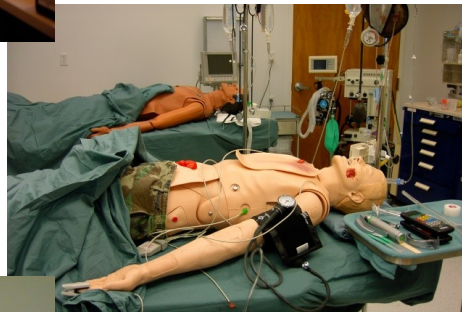
# Graduate Medical Education (1 of 2)



- Advanced Trauma Life Support Certification
- Advanced Trauma Life Support Instructors Course
- Clinical Psychology Interns
- NCC Pulmonary & NIH Critical Care Fellowship Training



# Graduate Medical Education (2 of 2)



- Faculty Development Course GME Program Directors
- Pediatric Interns Clinical Practice Exam
- OSCE: NNMC Interns
- Psychiatric Residents Formative SP Event



# Operational Medicine (Medical Readiness)

- USS Comfort: SP Humanitarian Exercise (2 events)
- Bushmaster MS 4
- Human Performance Lab IV Training
- WRAMC Critical Care Nurse Training



# Research

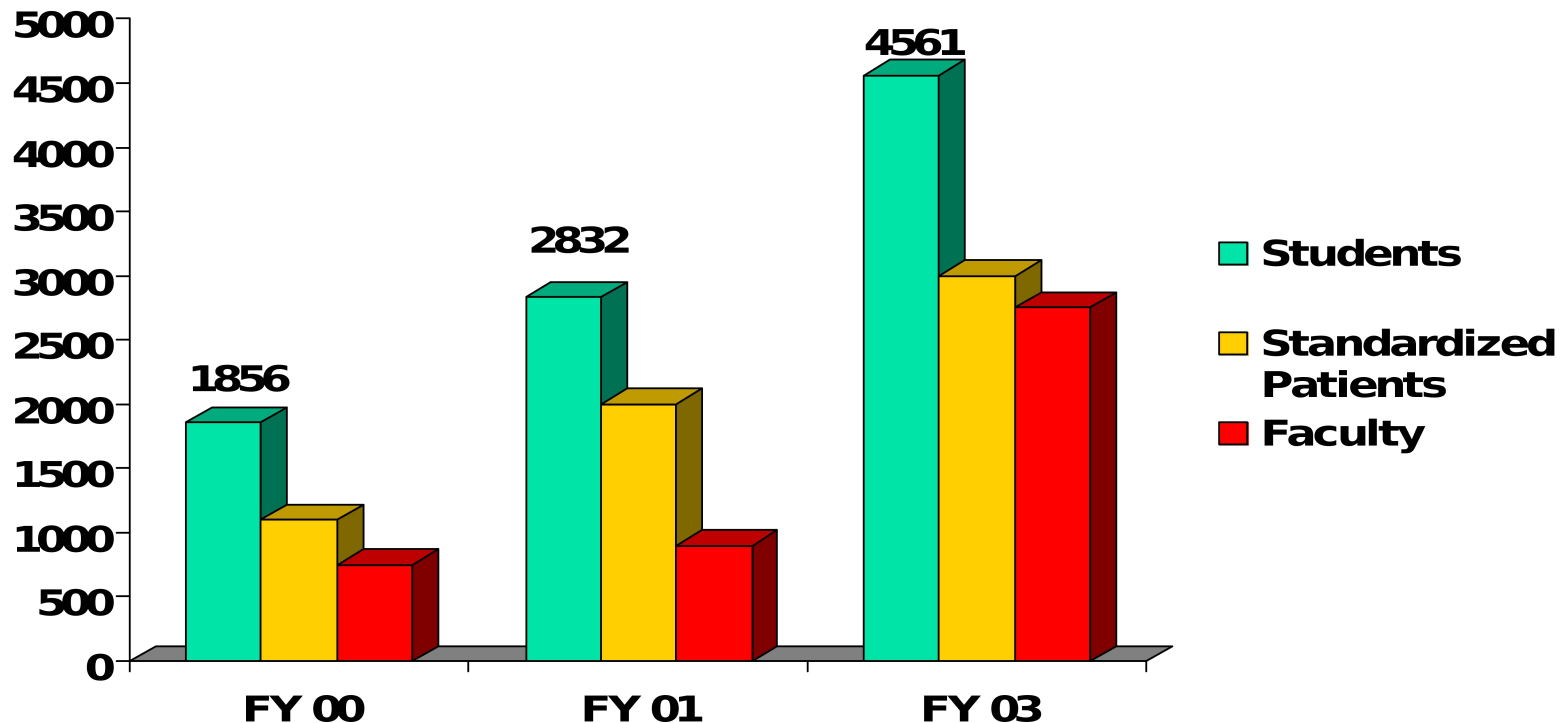


- Descriptive research of SP projects
- Distance Learning Projects
- ATLS Surgical Simulator Validation Studies
- Project Touch

# Clinical Skills Teaching & Assessment Laboratory Utilization Profile

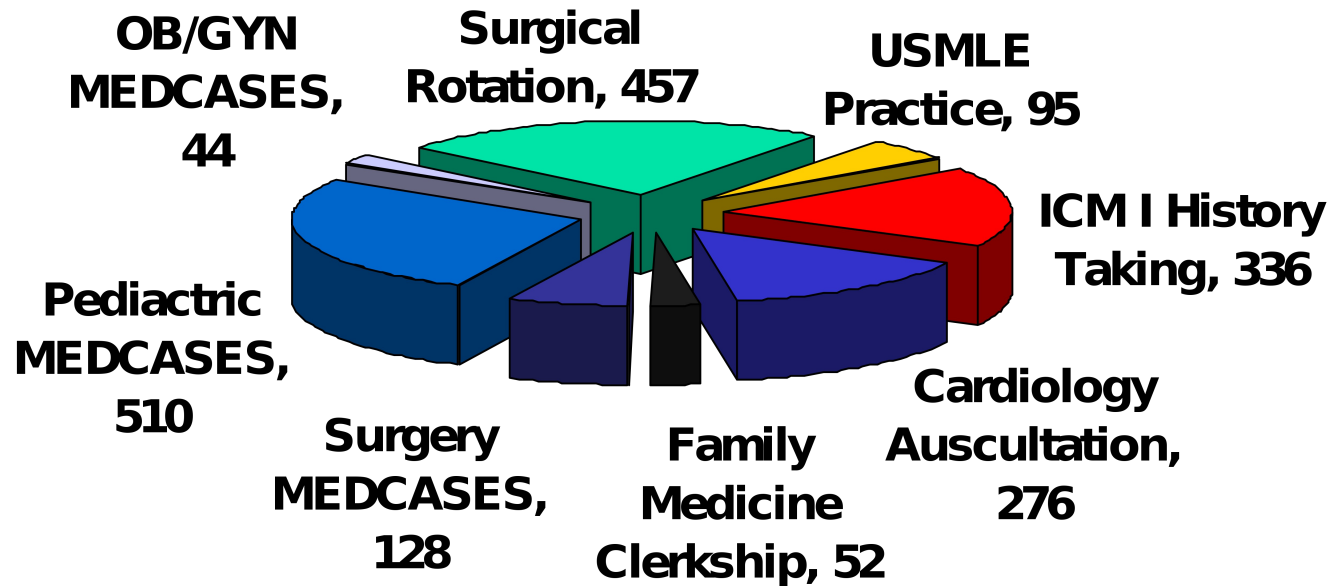


**Total Number of Encounters: 9,249**



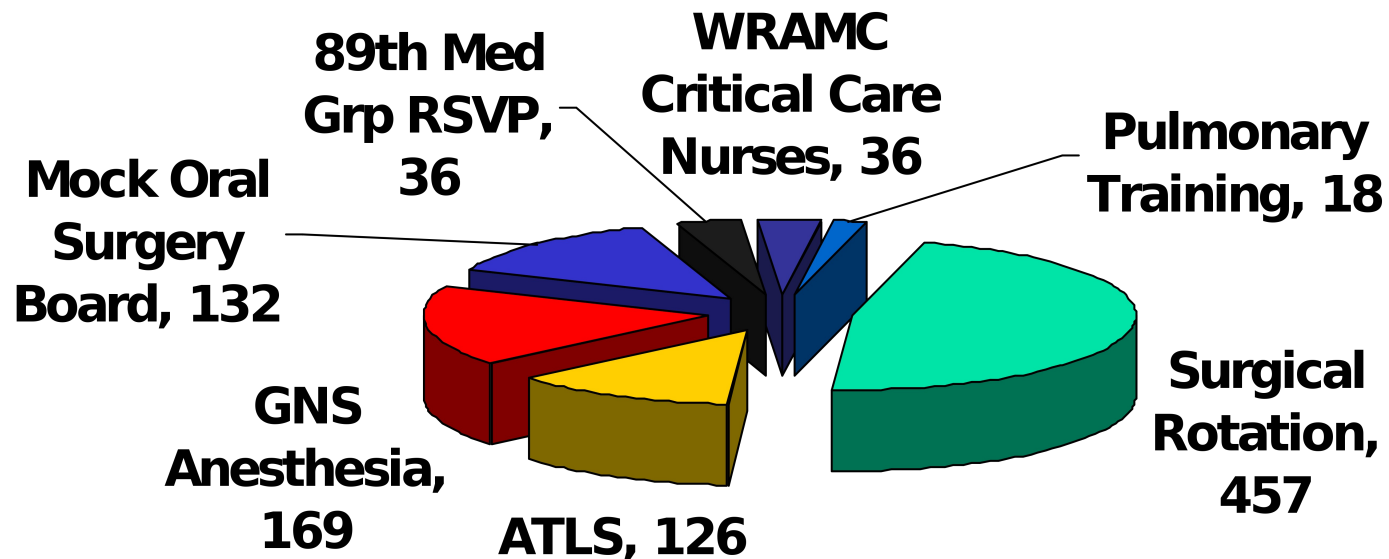


# Computer Lab: 1,898 Encounters by Project FY00-02



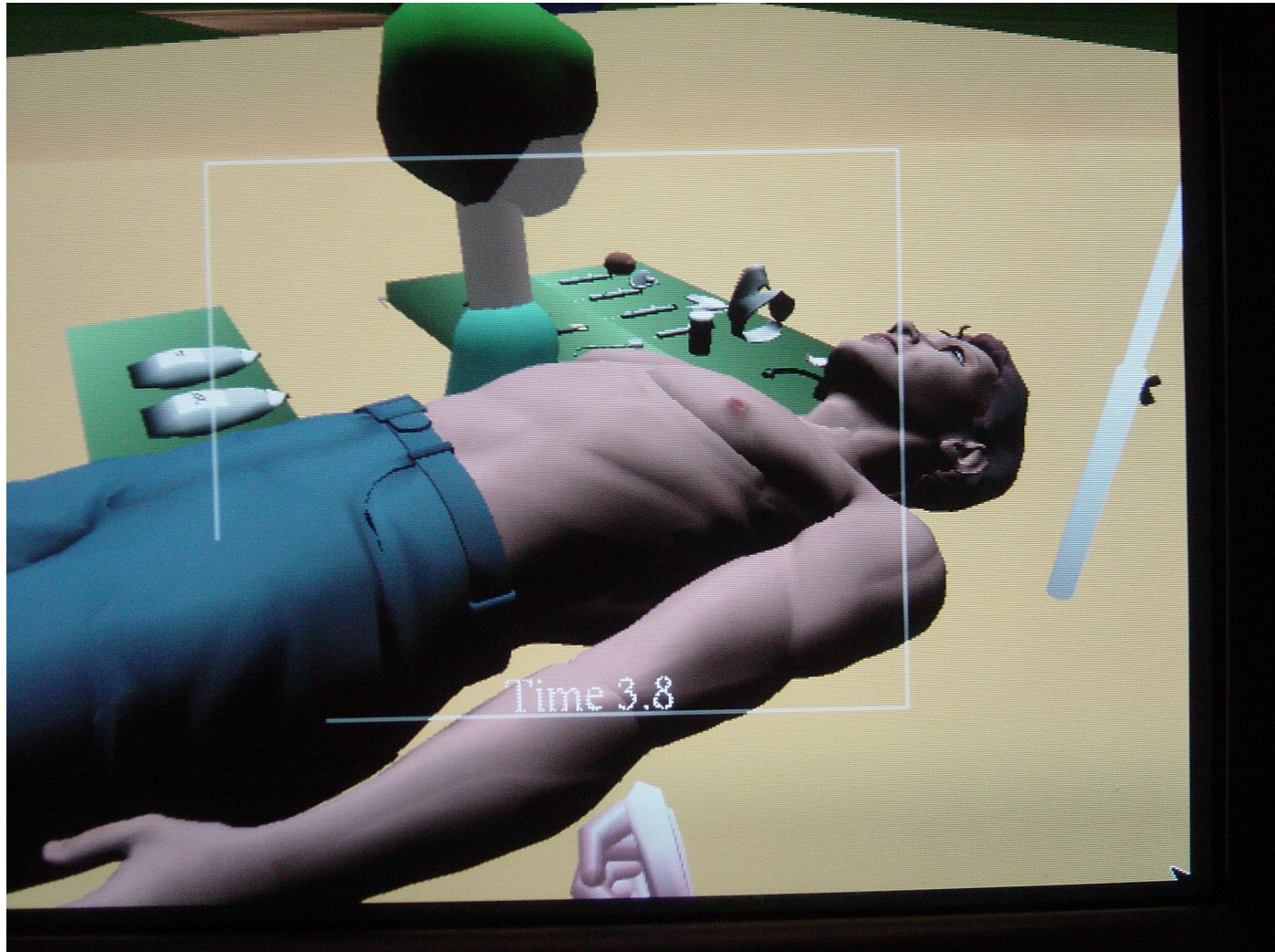


# Surgical Simulation Lab: 974 Encounters by Project FY 00-02





# Touch Project

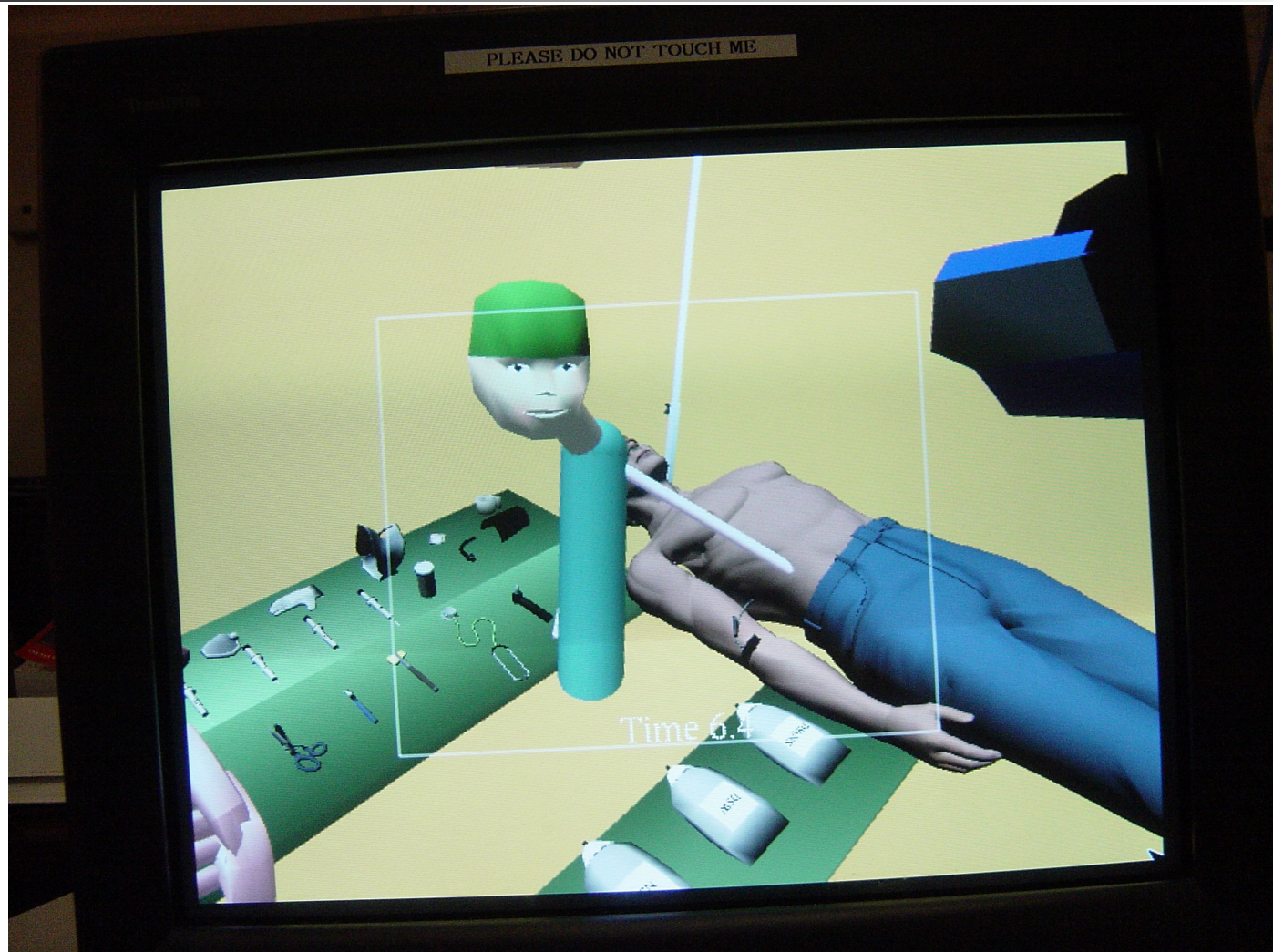




# VR Headset



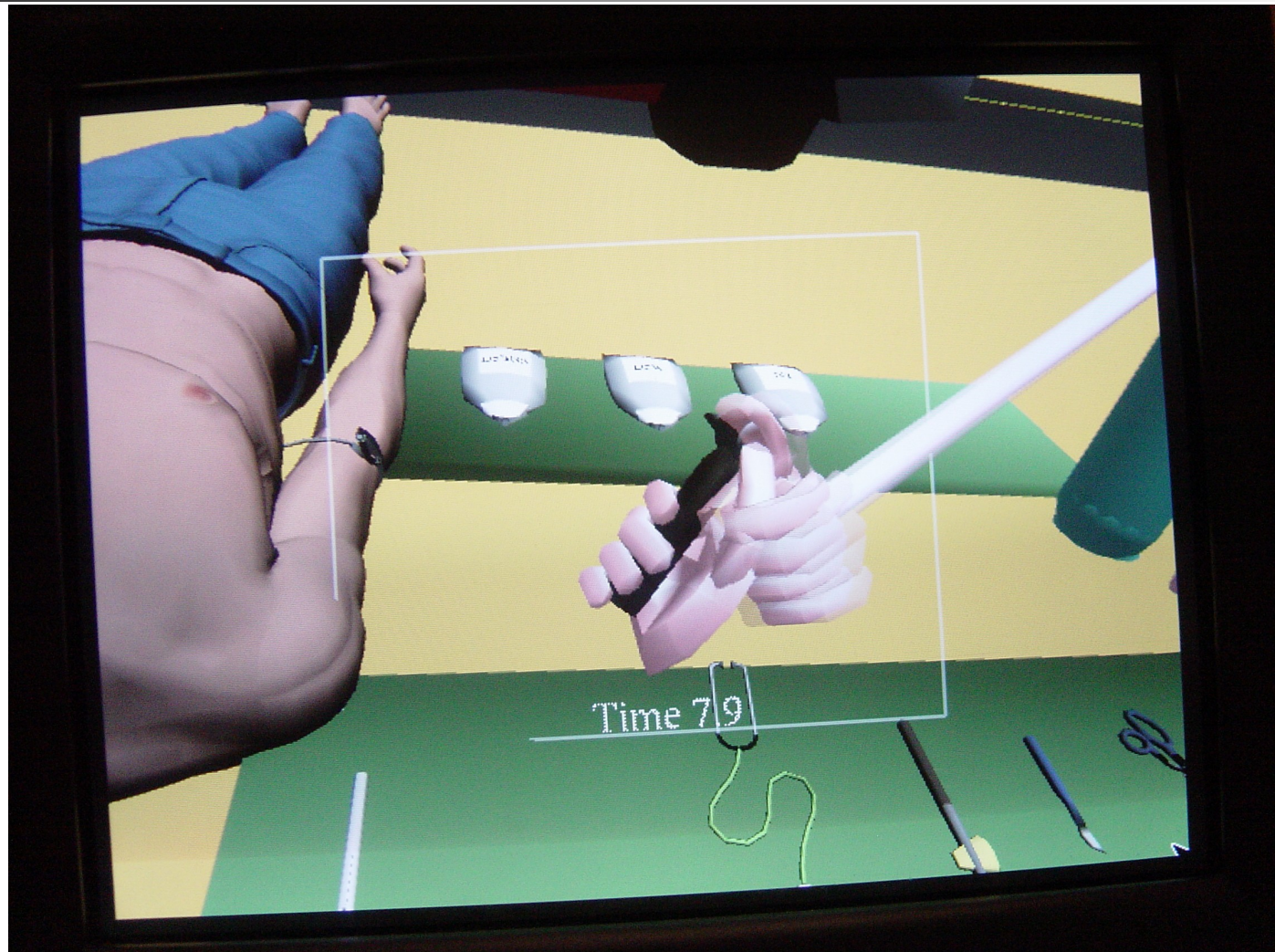
# Touch Project



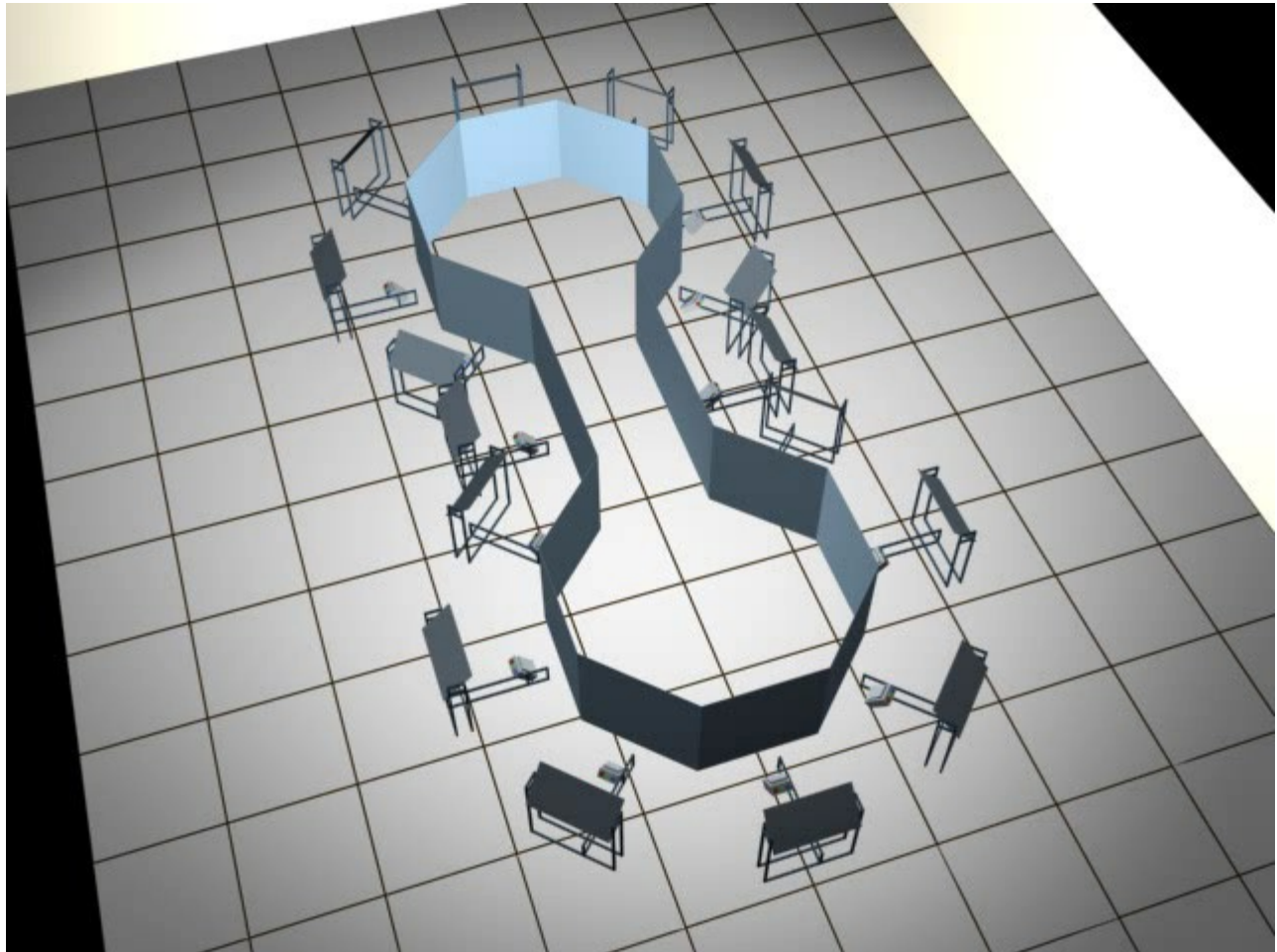




# Touch Project



# The CAVE





# Simulated Operating Room





# VR Downtown Landscape



# Simulation in Trauma Care: Triage





# The Future:

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- Train groups in real time who are geographically separated
- Decentralize the SIMCENTER
- Combining SP's, Mannequins, Computer Programs to assess clinical skills
- Expand research on the outcomes of SIMCEN training.



Thank You!